

Jacob Jones

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279
papers

10,119
citations

51
h-index

90
g-index

295
ext. papers

11,992
ext. citations

4.7
avg, IF

6.42
L-index

#	Paper	IF	Citations
279	Inhomogeneous electric field-induced structural changes in soft lead zirconate titanate ferroelectric ceramics. <i>Acta Materialia</i> , 2022 , 226, 117682	8.4	
278	Mechanisms of orthophosphate removal from water by lanthanum carbonate and other lanthanum-containing materials.. <i>Science of the Total Environment</i> , 2022 , 153153	10.2	0
277	Phase coexistence and grain size effects on the functional properties of BaTiO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2230-2247	6	1
276	Many routes to ferroelectric HfO ₂ : A review of current deposition methods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022 , 40, 010803	2.9	11
275	High-power energy harvesting and imperceptible pulse sensing through peapod-inspired hierarchically designed piezoelectric nanofibers. <i>Nano Energy</i> , 2022 , 99, 107386	17.1	1
274	Hazardous Spills at Retired Fertilizer Manufacturing Plants Will Continue to Occur in the Absence of Scientific Innovation and Regulatory Enforcement. <i>Environmental Science & Technology</i> , 2021 ,	10.3	1
273	Influence of oxygen source on the ferroelectric properties of ALD grown Hf _{1-x} Zr _x O ₂ films. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 035102	3	16
272	Impact of Iridium Oxide Electrodes on the Ferroelectric Phase of Thin Hf _{0.5} Zr _{0.5} O ₂ Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100012	2.5	15
271	Deformation mechanisms in ice-templated alumina-epoxy composites for the different directions of uniaxial compressive loading. <i>Materialia</i> , 2021 , 16, 101054	3.2	2
270	Orientation-dependent, field-induced phase transitions in soft lead zirconate titanate piezoceramics. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3357-3362	6	3
269	The origin of chemical inhomogeneity in lead-free potassium sodium niobate ceramic: Competitive chemical reaction during solid-state synthesis. <i>Acta Materialia</i> , 2021 , 211, 116833	8.4	5
268	Functional Gels Containing Hydroxamic Acid Degrade Organophosphates in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 8799-8811	3.9	0
267	Domains and domain dynamics in fluorite-structured ferroelectrics. <i>Applied Physics Reviews</i> , 2021 , 8, 021312	17.3	18
266	Residual Stress and Ferroelastic Domain Reorientation in Declamped {001} Pb(ZrTi)O Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 259-272	3.2	3
265	Fracture and electric-field-induced crack growth behavior in NBT-6BT relaxor ferroelectrics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2158-2169	3.8	1
264	Unexpectedly large remanent polarization of Hf _{0.5} Zr _{0.5} O ₂ metal-ferroelectric-metal capacitor fabricated without breaking vacuum. <i>Applied Physics Letters</i> , 2021 , 118, 012903	3.4	9
263	Special Issue on the Contributions of Women in Ferroelectrics Research and Development. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 215-216	3.2	

262	Influence of natural organic matter and pH on phosphate removal by and filterable lanthanum release from lanthanum-modified bentonite. <i>Water Research</i> , 2021 , 202, 117399	12.5	5
261	Effects of poling on the electrical and electromechanical response of PMNBT relaxor ferroelectric ceramics. <i>Open Ceramics</i> , 2021 , 7, 100140	3.3	0
260	The Structure of Natural Biogenic Iron (Oxyhydr)oxides Formed in Circumneutral pH Environments. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 308, 237-255	5.5	1
259	Synthesis and stability of Sn(II)-containing perovskites: (Ba,SnII)HfIVO3 versus (Ba,SnII)SnIVO3. <i>Journal of Solid State Chemistry</i> , 2021 , 302, 122419	3.3	2
258	Accessing Legacy Phosphorus in Soils. <i>Soil Systems</i> , 2020 , 4, 74	3.5	6
257	LiquidSolid Mixtures of Ga Metal Infused with Cu Microparticles and Nanoparticles for Microscale and Nanoscale Patterning of Solid Metals at Room Temperature. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12064-12070	5.6	7
256	Compositional dependence of crystallization temperatures and phase evolution in hafnia-zirconia (HfxZr1-x)O2 thin films. <i>Applied Physics Letters</i> , 2020 , 116, 192901	3.4	24
255	Crystal structures and electrical properties of cobalt manganese spinel oxides. <i>Materials Today Communications</i> , 2020 , 25, 101298	2.5	
254	Pushing the Limits of Metastability in Semiconducting Perovskite Oxides for Visible-Light-Driven Water Oxidation. <i>Chemistry of Materials</i> , 2020 , 32, 3054-3064	9.6	8
253	Effect of Forming Gas Furnace Annealing on the Ferroelectricity and Wake-Up Effect of Hf0.5Zr0.5O2 Thin Films. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 024011	2	9
252	Strengthened relaxor behavior in (1-x)Pb(Fe0.5Nb0.5)O3-xBiFeO3. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3452-3462	7.1	6
251	Materials matter in phosphorus sustainability. <i>MRS Bulletin</i> , 2020 , 45, 7-10	3.2	5
250	Oxygen octahedral tilt ordering in (Na1/2Bi1/2)TiO3 ferroelectric thin films. <i>Applied Physics Letters</i> , 2020 , 116, 022902	3.4	0
249	Effect of in situ hydrogen plasma on the ferroelectricity of hafnium zirconium oxide films. <i>Applied Physics Letters</i> , 2020 , 116, 032901	3.4	11
248	Search for Ferroelectric Binary Oxides: Chemical and Structural Space Exploration Guided by Group Theory and Computations. <i>Chemistry of Materials</i> , 2020 , 32, 3823-3832	9.6	3
247	Algorithms in Diffraction Profile Analysis 2020 , 501-539		
246	Dielectric, energy storage, and loss study of antiferroelectric-like Al-doped HfO2 thin films. <i>Applied Physics Letters</i> , 2020 , 117, 221104	3.4	7
245	A perspective on semiconductor devices based on fluorite-structured ferroelectrics from the materialsdevice integration perspective. <i>Journal of Applied Physics</i> , 2020 , 128, 240904	2.5	21

244	Emerging lanthanum (III)-containing materials for phosphate removal from water: A review towards future developments. <i>Environment International</i> , 2020 , 145, 106115	12.9	29
243	Connecting the Multiscale Structure with Macroscopic Response of Relaxor Ferroelectrics. <i>Advanced Functional Materials</i> , 2020 , 30, 2006823	15.6	17
242	Influence of Oxygen Content on the Structure and Reliability of Ferroelectric HfxZr1-xO2 Layers. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3618-3626	4	30
241	Social science and infrastructure networks and the human-technology interface. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	1
240	Impaired mitochondrial function of alveolar macrophages in carbon nanotube-induced chronic pulmonary granulomatous disease. <i>Toxicology</i> , 2020 , 445, 152598	4.4	8
239	Effect of alloying BaTiO3 with BiZn1/2Ti1/2O3 on polarization reversal. <i>Applied Physics Letters</i> , 2020 , 117, 042907	3.4	1
238	Origin of the large electrostrain in BiFeO3-BaTiO3 based lead-free ceramics. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21254-21263	13	53
237	Local structural investigation of hafnia-zirconia polymorphs in powders and thin films by X-ray absorption spectroscopy. <i>Acta Materialia</i> , 2019 , 180, 158-169	8.4	8
236	Spatial Signal Detection Using Continuous Shrinkage Priors. <i>Technometrics</i> , 2019 , 61, 494-506	1.4	3
235	Dual-source evaporation of silver bismuth iodide films for planar junction solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2095-2105	13	39
234	Origin of Ferroelectric Phase in Undoped HfO2 Films Deposited by Sputtering. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900042	4.6	68
233	Electrocaloric fatigue of lead magnesium niobate mediated by an electric-field-induced phase transformation. <i>Acta Materialia</i> , 2019 , 169, 275-283	8.4	20
232	Electrical fatigue failure in (Na1/2Bi1/2)TiO3BaTiO3 relaxor ceramics. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5997-6007	3.8	9
231	Structures, Phase Equilibria, and Properties of HfO2 2019 , 25-45		5
230	Total scattering and diffraction studies of lead-free piezoelectric (1-x)Ba(Zr0.2Ti0.8)O3-x(Ba0.7Ca0.3)TiO3 deconvolute intrinsic and extrinsic contributions to electromechanical strain. <i>Acta Materialia</i> , 2019 , 171, 79-91	8.4	12
229	Effect of furnace annealing on the ferroelectricity of Hf0.5 Zr0.5O2 thin films. <i>Thin Solid Films</i> , 2019 , 677, 142-149	2.2	9
228	Texture and phase variation of ALD PbTiO3 films crystallized by rapid thermal anneal. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 020917	2.9	4
227	Enhancing thermoelectric properties of NaCo2O4 ceramics through Na pre-treatment induced nano-decoration. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 91-101	5.7	13

226	Understanding the lithium deficient $\text{Li}_x\text{Ni}_y\text{Mn}_z\text{Co}_{1-y-z}\text{O}_2$ (x . <i>Materials Chemistry and Physics</i> , 2019 , 228, 32-36	4.4	2
225	Peroxisome Proliferator-activated Receptor-Deficiency Exacerbates Fibrotic Response to Mycobacteria Peptide in Murine Sarcoidosis Model. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019 , 61, 198-208	5.7	12
224	Effect of Pt3Pb on the permittivity and conductivity of lead zirconate titanate thin films. <i>Thin Solid Films</i> , 2019 , 685, 420-427	2.2	1
223	On the Origin of the Large Remanent Polarization in La:HfO ₂ . <i>Advanced Electronic Materials</i> , 2019 , 5, 1900303	6.4	50
222	Mechanisms underpinning the ultrahigh piezoelectricity in Sm-doped 0.705Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.295PbTiO ₃ : Temperature-induced metastable local structure and field-induced polarization rotation. <i>Journal of Applied Physics</i> , 2019 , 126, 075101	2.5	4
221	Effect of low-frequency alternating current poling on 5-mm-thick 0.7Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.3PbTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2019 , 115, 192904	3.4	25
220	Additive Manufacturing of Ferroelectric-Oxide Thin-Film Multilayer Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45155-45160	9.5	8
219	Best practices from nano-risk analysis relevant for other emerging technologies. <i>Nature Nanotechnology</i> , 2019 , 14, 998-1001	28.7	16
218	Approaches for Characterizing Surfaces Damaged by Disinfection in Healthcare. <i>Nano LIFE</i> , 2019 , 09, 1950002	0.9	1
217	Structure of HfO ₂ modified with Y, Gd, and Zr at ambient conditions and high pressures. <i>Journal of Applied Physics</i> , 2019 , 126, 204102	2.5	1
216	Giant dielectric phenomenon of Ba _{0.5} Sr _{0.5} TiO ₃ /CaCu ₃ Ti ₄ O ₁₂ multilayers due to interfacial polarization for capacitor applications. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 1116-1121	6	22
215	Unexpectedly high piezoelectricity of Sm-doped lead zirconate titanate in the Curie point region. <i>Scientific Reports</i> , 2018 , 8, 4120	4.9	18
214	Origin of Temperature-Dependent Ferroelectricity in Si-Doped HfO ₂ . <i>Advanced Electronic Materials</i> , 2018 , 4, 1700489	6.4	44
213	Thickness dependent response of domain wall motion in declassified {001} Pb(Zr _{0.7} Ti _{0.3})O ₃ thin films. <i>Acta Materialia</i> , 2018 , 151, 243-252	8.4	14
212	Lanthanum-Doped Hafnium Oxide: A Robust Ferroelectric Material. <i>Inorganic Chemistry</i> , 2018 , 57, 2752-2765	37.65	161
211	Comparison of the in- and across-plane ionic conductivity of highly oriented neodymium doped ceria thin films. <i>Acta Materialia</i> , 2018 , 147, 10-15	8.4	3
210	A Versatile Thin-Film Deposition Method for Multidimensional Semiconducting Bismuth Halides. <i>Chemistry of Materials</i> , 2018 , 30, 3538-3544	9.6	32
209	Patterned nano-domains in PMN-PT single crystals. <i>Acta Materialia</i> , 2018 , 143, 166-173	8.4	33

208	Effect of mechanical depoling on piezoelectric properties of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3/\text{BaTiO}_3$ in the morphotropic phase boundary region. <i>Journal of Materials Science</i> , 2018 , 53, 1672-1679	4.3	7
207	Deconvolved intrinsic and extrinsic contributions to electrostrain in high performance, Nb-doped $\text{Pb}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$ piezoceramics (0.50 $\leq x \leq$ 0.56). <i>Acta Materialia</i> , 2018 , 158, 369-380	8.4	23
206	Dielectric and piezoelectric properties of 0.7 $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -0.3 PbTiO_3 single crystal poled using alternating current. <i>Materials Research Letters</i> , 2018 , 6, 537-544	7.4	51
205	Enhanced piezoelectricity of thin film hafnia-zirconia (HZO) by inorganic flexible substrates. <i>Applied Physics Letters</i> , 2018 , 113, 022905	3.4	14
204	Application and testing of risk screening tools for nanomaterial risk analysis. <i>Environmental Science: Nano</i> , 2018 , 5, 1844-1858	7.1	5
203	Relaxor-ferroelectric transitions: Sodium bismuth titanate derivatives. <i>MRS Bulletin</i> , 2018 , 43, 600-606	3.2	74
202	Insights into Texture and Phase Coexistence in Polycrystalline and Polyphasic Ferroelectric HfO_2 Thin Films using 4D-STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 184-185	0.5	4
201	Field-induced polarization rotation and phase transitions in 0.70 $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ -0.30 PbTiO_3 piezoceramics observed by in situ high-energy x-ray scattering. <i>Physical Review B</i> , 2018 , 97,	3.3	18
200	Local structures of perovskite dielectrics and ferroelectrics via pair distribution function analyses. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 971-987	6	27
199	Field induced metastable ferroelectric phase in $\text{Pb}_{0.97}\text{La}_{0.03}(\text{Zr}_{0.90}\text{Ti}_{0.10})_{0.9925}\text{O}_3$ ceramics. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1479-1487	6	5
198	Radiation-induced changes of vacancy-type defects in ferroelectric capacitors as revealed by Doppler broadening positron annihilation spectroscopy. <i>Journal of Applied Physics</i> , 2018 , 124, 244105	2.5	2
197	Bayesian Approaches to Uncertainty Quantification and Structure Refinement from X-Ray Diffraction. <i>Springer Series in Materials Science</i> , 2018 , 81-102	0.9	
196	Crystallographic and magnetic investigations of textured bismuth ferrite lead titanate layers. <i>Materials Research Express</i> , 2018 , 5, 126103	1.7	
195	Time-of-flight neutron total scattering with applied electric fields: and studies of ferroelectric materials. <i>Review of Scientific Instruments</i> , 2018 , 89, 092905	1.7	2
194	Polarization Mechanisms in P(VDF-TrFE) Ferroelectric Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800340	2.5	4
193	Multiscale field-induced structure of (1-x) $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3/\text{PbTiO}_3$ ceramics from combined techniques. <i>Acta Materialia</i> , 2018 , 154, 14-24	8.4	13
192	Effect of Annealing Ferroelectric HfO_2 Thin Films: In Situ, High Temperature X-Ray Diffraction. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800091	6.4	48
191	Formation of sodium bismuth titanate/barium titanate during solid-state synthesis. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1330-1338	3.8	10

190	Declamped Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobate-lead Titanate Thin Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1605014	15.6	13
189	External-field-induced crystal structure and domain texture in $(1-x)\text{Na}0.5\text{Bi}0.5\text{TiO}3-x\text{K}0.5\text{Bi}0.5\text{TiO}3$ piezoceramics. <i>Acta Materialia</i> , 2017 , 127, 319-331	8.4	32
188	A Bayesian approach to modeling diffraction profiles and application to ferroelectric materials. <i>Journal of Applied Crystallography</i> , 2017 , 50, 211-220	3.8	3
187	Factors Favoring Ferroelectricity in Hafnia: A First-Principles Computational Study. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4139-4145	3.8	105
186	Thickness-dependent domain wall reorientation in 70/30 lead magnesium niobate- lead titanate thin films. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3961-3972	3.8	11
185	Flexible Inorganic Ferroelectric Thin Films for Nonvolatile Memory Devices. <i>Advanced Functional Materials</i> , 2017 , 27, 1700461	15.6	90
184	A comprehensive study on the structural evolution of HfO ₂ thin films doped with various dopants. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4677-4690	7.1	174
183	Field-induced antiferroelectric to ferroelectric transitions in $(\text{Pb}1-x\text{La}x)(\text{Zr}0.90\text{Ti}0.10)1-x/4\text{O}3$ investigated by in situ X-ray diffraction. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 4631-4636	6	11
182	Electric-field-induced structural changes in multilayer piezoelectric actuators during electrical and mechanical loading. <i>Acta Materialia</i> , 2017 , 132, 96-105	8.4	22
181	Doped Hf _{0.5} Zr _{0.5} O ₂ for high efficiency integrated supercapacitors. <i>Applied Physics Letters</i> , 2017 , 110, 232904	3.4	63
180	Temperature dependence of field-responsive mechanisms in lead zirconate titanate. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4352-4361	3.8	7
179	Grain orientation effects on the ionic conductivity of neodymia doped ceria thin films. <i>Acta Materialia</i> , 2017 , 133, 81-89	8.4	6
178	Flexoelectric characterization of BaTiO ₃ -0.08Bi(Zn _{1/2} Ti _{1/2})O ₃ . <i>Applied Physics Letters</i> , 2017 , 110, 222904	3.4	20
177	Low temperature dielectric relaxation in ordinary perovskite ferroelectrics: enlightenment from high-energy x-ray diffraction. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 205305	3	5
176	The contribution of 180° domain wall motion to dielectric properties quantified from in situ X-ray diffraction. <i>Acta Materialia</i> , 2017 , 126, 36-43	8.4	29
175	The study of radiation effects in emerging micro and nano electro mechanical systems (MEMS and NEMS). <i>Semiconductor Science and Technology</i> , 2017 , 32, 013005	1.8	21
174	Few-layered metallic 1T-MoS ₂ /TiO ₂ with exposed (001) facets: two-dimensional nanocomposites for enhanced photocatalytic activities. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28207-28215	3.6	24
173	Time and frequency-dependence of the electric field-induced phase transition in BaTiO ₃ -BiZn _{1/2} Ti _{1/2} O ₃ . <i>Journal of Applied Physics</i> , 2017 , 122, 064104	2.5	9

172	Si Doped Hafnium Oxide A Fragile Ferroelectric System. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700131	6.4	105
171	Temperature-induced local and average structural changes in BaTiO ₃ -Bi(Zn _{1/2} Ti _{1/2})O ₃ solid solutions: The origin of high temperature dielectric permittivity. <i>Journal of Applied Physics</i> , 2017 , 122, 064103	2.5	17
170	Total Ionizing Dose Effects on Piezoelectric Thin-Film Cantilevers With Oxide Electrodes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1135-1143	3.2	5
169	Extrinsic contributions to piezoelectric Rayleigh behavior in morphotropic PbTiO ₃ - BiScO ₃ . <i>Acta Materialia</i> , 2017 , 137, 45-53	8.4	12
168	Phenomenological Model for Defect Interactions in Irradiated Functional Materials. <i>Scientific Reports</i> , 2017 , 7, 5308	4.9	7
167	Electrochemical Intercalation of Mg into Anhydrous and Hydrated Crystalline Tungsten Oxides. <i>Langmuir</i> , 2017 , 33, 9314-9323	4	39
166	Enhanced ferroelectric polarization in epitaxial (Pb _{1-x} La _x)(Zr _{0.52} Ti _{0.48})O ₃ thin films due to low La doping. <i>Physical Review B</i> , 2017 , 95,	3.3	15
165	Investigating Pb diffusion across buried interfaces in Pb(Zr _{0.2} Ti _{0.8})O ₃ thin films via time-of-flight secondary ion mass spectrometry depth profiling. <i>Surface and Interface Analysis</i> , 2017 , 49, 973-977	1.5	3
164	Electric field dependent local structure of (K _x Na _{1-x}) _{0.5} Bi _{0.5} TiO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	13
163	Local structural behavior of PbZr _{0.5} Ti _{0.5} O ₃ during electric field application via in situ pair distribution function study. <i>Journal of Applied Physics</i> , 2017 , 122, 174102	2.5	8
162	Effect of microstructure on irradiated ferroelectric thin films. <i>Journal of Applied Physics</i> , 2017 , 121, 244102	3.2	6
161	Current Understanding of Structure-Processing-Property Relationships in BaTiO ₃ -Bi(M)O ₃ Dielectrics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2849-2870	3.8	69
160	Single- and Double-Site Substitutions in Mixed-Metal Oxides: Adjusting the Band Edges Toward the Water Redox Couples. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19175-19188	3.8	11
159	Local structure in BaTiO ₃ -BiScO ₃ dipole glasses. <i>Physical Review B</i> , 2016 , 93,	3.3	21
158	Anomalous reduction in domain wall displacement at the morphotropic phase boundary of the piezoelectric alloy system PbTiO ₃ -BiScO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	26
157	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2537-2557	3.8	108
156	Use of Bayesian Inference in Crystallographic Structure Refinement via Full Diffraction Profile Analysis. <i>Scientific Reports</i> , 2016 , 6, 31625	4.9	18
155	Simultaneous resonant x-ray diffraction measurement of polarization inversion and lattice strain in polycrystalline ferroelectrics. <i>Scientific Reports</i> , 2016 , 6, 20829	4.9	31

154	Effect of High Cobalt Concentration on Hopping Motion in Cobalt Manganese Spinel Oxide (Co _x Mn _{3-x} O ₄ , x ≤ 3). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13667-13674	3.8	23
153	Effect of Mechanical Constraint on Domain Reorientation in Predominantly {111}-Textured Lead Zirconate Titanate Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1802-1807	3.8	5
152	CuNb _{1-x} TaxO ₃ (x ≤ 0.25) solid solutions: impact of Ta(V) substitution and Cu(I) deficiency on their structure, photocatalytic, and photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3115-3126	13	24
151	Accelerated Thermal Decomposition of Graphene Oxide Films in Air via in Situ X-ray Diffraction Analysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14984-14990	3.8	39
150	Role of composition and structure on the properties of metal/multifunctional ceramic interfaces. <i>Journal of Applied Physics</i> , 2016 , 120, 045310	2.5	6
149	Composition dependence of electric-field-induced structure of Bi _{1/2} (Na _{1-x} K _x) _{1/2} TiO ₃ lead-free piezoelectric ceramics. <i>Journal of Applied Physics</i> , 2016 , 119, 234101	2.5	8
148	Extrinsic response enhancement at the polymorphic phase boundary in piezoelectric materials. <i>Applied Physics Letters</i> , 2016 , 108, 142901	3.4	21
147	Domain wall and interphase boundary motion in (1-x)Bi(Mg _{0.5} Ti _{0.5})O ₃ -PbTiO ₃ near the morphotropic phase boundary. <i>Journal of Applied Physics</i> , 2016 , 120, 044103	2.5	7
146	Ultrafast Method for Selective Design of Graphene Quantum Dots with Highly Efficient Blue Emission. <i>Scientific Reports</i> , 2016 , 6, 38423	4.9	34
145	Coupled domain wall motion, lattice strain and phase transformation in morphotropic phase boundary composition of PbTiO ₃ -BiScO ₃ piezoelectric ceramic. <i>Journal of Applied Physics</i> , 2016 , 120, 154104	2.5	12
144	Local and average structures of BaTiO ₃ -Bi(Zn _{1/2} Ti _{1/2})O ₃ . <i>Journal of Applied Physics</i> , 2016 , 120, 184102	2.5	26
143	Effect of top electrode material on radiation-induced degradation of ferroelectric thin film structures. <i>Journal of Applied Physics</i> , 2016 , 120, 024101	2.5	16
142	Diffusion Across M/Pb(Zr,Ti)O ₃ Interfaces (M=Pt ₃ Pb or Pt) Under Different System Conditions. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 356-362	3.8	2
141	Extensive domain wall contribution to strain in a (K,Na)NbO ₃ -based lead-free piezoceramics quantified from high energy X-ray diffraction. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 2489-2494	6	23
140	In situ X-ray diffraction of lead zirconate titanate piezoMEMS cantilever during actuation. <i>Materials and Design</i> , 2016 , 111, 429-434	8.1	4
139	Entropy-stabilized oxides. <i>Nature Communications</i> , 2015 , 6, 8485	17.4	802
138	Unusual structural-disorder stability of mechanochemically derived-Pb(Sc _{0.5} Nb _{0.5})O ₃ . <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10309-10315	7.1	15
137	Pressure-induced structures of Si-doped HfO ₂ . <i>Journal of Applied Physics</i> , 2015 , 117, 234102	2.5	8

136	In situ measurement of increased ferroelectric/ferroelastic domain wall motion in de-clamped tetragonal lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 054103	2.5	34
135	TaN interface properties and electric field cycling effects on ferroelectric Si-doped HfO ₂ thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 134105	2.5	130
134	Role of the PbTiO ₃ Seed Layer on the Crystallization Behavior of PZT Thin Films. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1407-1412	3.8	7
133	Structure of 3[at.%] and 9[at.%] Si-doped HfO ₂ from combined refinement of X-ray and neutron diffraction patterns. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 655-661	5.7	8
132	The effects of oxygen pressure on disordering and magneto-transport properties of Ba ₂ FeMoO ₆ thin films grown via pulsed laser deposition. <i>Journal of Applied Physics</i> , 2015 , 118, 033903	2.5	2
131	Breaking of macroscopic centric symmetry in paraelectric phases of ferroelectric materials and implications for flexoelectricity. <i>Nature Materials</i> , 2015 , 14, 224-9	27	151
130	In situ characterization of polycrystalline ferroelectrics using x-ray and neutron diffraction. <i>Journal of Materials Research</i> , 2015 , 30, 340-356	2.5	24
129	Accurate Nanoscale Crystallography in Real-Space Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 946-52	0.5	29
128	Electric-field-induced local and mesoscale structural changes in polycrystalline dielectrics and ferroelectrics. <i>Scientific Reports</i> , 2015 , 5, 14678	4.9	53
127	Mixed Al and Si doping in ferroelectric HfO ₂ thin films. <i>Applied Physics Letters</i> , 2015 , 107, 242903	3.4	27
126	Processing and crystallographic structure of non-equilibrium Si-doped HfO ₂ . <i>Journal of Applied Physics</i> , 2015 , 117, 244103	2.5	5
125	Highly Accurate Real Space Nanometrology Using Revolving Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2245-2246	0.5	
124	Field induced domain switching as the origin of anomalous lattice strain along non-polar direction in rhombohedral BiScO ₃ -PbTiO ₃ close to the morphotropic phase boundary. <i>Applied Physics Letters</i> , 2015 , 107, 052901	3.4	15
123	Combined Experimental and Computational Methods Reveal the Evolution of Buried Interfaces during Synthesis of Ferroelectric Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500181	4.6	11
122	Ferroelectric Si-Doped HfO ₂ Device Properties on Highly Doped Germanium. <i>IEEE Electron Device Letters</i> , 2015 , 36, 766-768	4.4	46
121	Quantification of crystalline texture in ferroelectric materials by polarized Raman spectroscopy using Reverse Monte Carlo modelling. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 4321-4325	6	7
120	Electric field-induced phase transitions in Li-modified Na _{0.5} K _{0.5} NbO ₃ at the polymorphic phase boundary. <i>Journal of Applied Physics</i> , 2015 , 117, 024101	2.5	41
119	Ferroelectric/Ferroelastic domain wall motion in dense and porous tetragonal lead zirconate titanate films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 46-55	3.2	21

118	Low-temperature spin spray deposited ferrite/piezoelectric thin film magnetoelectric heterostructures with strong magnetoelectric coupling. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1188-1192	2.1	12
117	Measurement and analysis of field-induced crystallographic texture using curved position-sensitive diffraction detectors. <i>Journal of Electroceramics</i> , 2014 , 32, 283-291	1.5	20
116	Ergodicity reflected in macroscopic and microscopic field-dependent behavior of BNT-based relaxors. <i>Journal of Applied Physics</i> , 2014 , 115, 084111	2.5	60
115	BiFeO ₃ Ceramics: Processing, Electrical, and Electromechanical Properties. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 1993-2011	3.8	288
114	Ferroelectric phenomena in Si-doped HfO ₂ thin films with TiN and Ir electrodes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 03D123	1.3	88
113	The effects of layering in ferroelectric Si-doped HfO ₂ thin films. <i>Applied Physics Letters</i> , 2014 , 105, 072906	1.4	47
112	Domain wall motion and electromechanical strain in lead-free piezoelectrics: Insight from the model system (1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ -(Ba _{0.7} Ca _{0.3})TiO ₃ using in situ high-energy X-ray diffraction during application of electric fields. <i>Journal of Applied Physics</i> , 2014 , 115, 144104	2.5	69
111	Special quasirandom structures to study the (K _{0.5} Na _{0.5})NbO ₃ random alloy. <i>Physical Review B</i> , 2014 , 90,	3.3	14
110	Thermally-induced loss of piezoelectricity in ferroelectric Na _{0.5} Bi _{0.5} TiO ₃ BaTiO ₃ . <i>Materials Letters</i> , 2014 , 115, 132-135	3.3	32
109	Ferroelectric Materials: Domain Wall Displacement is the Origin of Superior Permittivity and Piezoelectricity in BaTiO ₃ at Intermediate Grain Sizes (Adv. Funct. Mater. 7/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 884-884	15.6	2
108	Rayleigh analysis of dielectric properties in textured K _{0.5} Na _{0.5} NbO ₃ ceramics. <i>Journal of Applied Physics</i> , 2014 , 116, 214101	2.5	14
107	Anisotropy in magnetoelectric composites. <i>Applied Physics Letters</i> , 2014 , 104, 242901	3.4	7
106	Piezoelectric K _{0.5} Na _{0.5} NbO ₃ Ceramics Textured Using Needlelike K _{0.5} Na _{0.5} NbO ₃ Templates. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3818-3825	3.8	26
105	Crystal structure of Si-doped HfO ₂ . <i>Journal of Applied Physics</i> , 2014 , 115, 034104	2.5	17
104	Texture analysis of thick bismuth ferrite lead titanate layers 2014 ,		1
103	Phase and Texture Evolution in Chemically Derived PZT Thin Films on Pt Substrates. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2973-2979	3.8	8
102	Structure and ferroelectricity of nonstoichiometric (Na _{0.5} Bi _{0.5})TiO ₃ . <i>Applied Physics Letters</i> , 2014 , 104, 112904	3.4	47
101	Extensive domain wall motion and deaging resistance in morphotropic 0.55Bi(Ni _{1/2} Ti _{1/2})O ₃ 0.45PbTiO ₃ polycrystalline ferroelectrics. <i>Applied Physics Letters</i> , 2014 , 104, 132907	3.4	19

100	Two-step polarization reversal in biased ferroelectrics. <i>Journal of Applied Physics</i> , 2014 , 115, 224104	2.5	40
99	Local structure change evidenced by temperature-dependent elastic measurements: Case study on Bi _{1/2} Na _{1/2} TiO ₃ -based lead-free relaxor piezoceramics. <i>Journal of Applied Physics</i> , 2014 , 115, 084108	2.5	10
98	Crystallographic changes in lead zirconate titanate due to neutron irradiation. <i>AIP Advances</i> , 2014 , 4, 117125	1.5	9
97	Domain Wall Displacement is the Origin of Superior Permittivity and Piezoelectricity in BaTiO ₃ at Intermediate Grain Sizes. <i>Advanced Functional Materials</i> , 2014 , 24, 885-896	15.6	123
96	Analysis methods for characterizing ferroelectric/ferroelastic domain reorientation in orthorhombic perovskite materials and application to Li-doped Na _{0.5} K _{0.5} NbO ₃ . <i>Journal of Materials Science</i> , 2013 , 48, 6905-6910	4.3	20
95	Stability and dewetting kinetics of thin gold films on Ti, TiO _x and ZnO adhesion layers. <i>Acta Materialia</i> , 2013 , 61, 7841-7848	8.4	10
94	Local atomic structure deviation from average structure of Na _{0.5} Bi _{0.5} TiO ₃ : Combined x-ray and neutron total scattering study. <i>Physical Review B</i> , 2013 , 87,	3.3	94
93	Nonlinear stress-strain behavior and stress-induced phase transitions in soft Pb(Zr _{1-x} Ti _x)O ₃ at the morphotropic phase boundary. <i>Physical Review B</i> , 2013 , 87,	3.3	44
92	Correlation Between Oxygen Vacancy, Microstrain, and Cation Distribution in Lithium-Excess Layered Oxides During the First Electrochemical Cycle. <i>Chemistry of Materials</i> , 2013 , 25, 1621-1629	9.6	209
91	Colossal Permittivity in Microwave-Sintered Barium Titanate and Effect of Annealing on Dielectric Properties. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 485-490	3.8	34
90	Structure and phase transitions in 0.5(Ba _{0.7} Ca _{0.3} TiO ₃)-0.5(BaZr _{0.2} Ti _{0.8} O ₃) from 100 °C to 150 °C. <i>Journal of Applied Physics</i> , 2013 , 113, 014103	2.5	99
89	Local structure, pseudosymmetry, and phase transitions in Na _{1/2} Bi _{1/2} TiO ₃ /Bi _{1/2} TiO ₃ ceramics. <i>Physical Review B</i> , 2013 , 87,	3.3	79
88	Effect of Switching Atmospheric Conditions during Crystallization on the Phase Evolution of Solution-Derived Lead Zirconate Titanate Thin Films. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2706-2709	3.8	7
87	Origin of large recoverable strain in 0.94(Bi _{0.5} Na _{0.5})TiO ₃ -0.06BaTiO ₃ near the ferroelectric-relaxor transition. <i>Applied Physics Letters</i> , 2013 , 102, 062902	3.4	53
86	An in situ diffraction study of domain wall motion contributions to the frequency dispersion of the piezoelectric coefficient in lead zirconate titanate. <i>Applied Physics Letters</i> , 2013 , 102, 042911	3.4	22
85	Phase and texture evolution in solution deposited lead zirconate titanate thin films: Formation and role of the Pt ₃ Pb intermetallic phase. <i>Journal of Applied Physics</i> , 2013 , 113, 244101	2.5	19
84	Synthesis of BaTiO ₃ -20wt%CoFe ₂ O ₄ Nanocomposites via Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2504-2509	3.8	41
83	In Situ Observations of Templated Grain Growth in (Na _{0.5} K _{0.5}) _{0.98} Li _{0.02} NbO ₃ Piezoceramics: Texture Development and Template-Matrix Interactions. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2653-2659	3.8	19

82	In situ X-ray diffraction study of the lithium excess layered oxide compound $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$ during electrochemical cycling. <i>Solid State Ionics</i> , 2012 , 207, 44-49	3.3	55
81	Structure and properties of Fe-modified $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ at ambient and elevated temperature. <i>Physical Review B</i> , 2012 , 85,	3.3	148
80	Structure and properties of La-modified $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ at ambient and elevated temperatures. <i>Journal of Applied Physics</i> , 2012 , 112, 054111	2.5	40
79	Domains, Domain Walls and Defects in Perovskite Ferroelectric Oxides: A Review of Present Understanding and Recent Contributions. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2012 , 37, 243-275	10.1	69
78	Strain Evolution of Highly Asymmetric Polycrystalline Ferroelectric Ceramics via a Self-Consistent Model and In Situ X-Ray Diffraction. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3947-3954	3.8	3
77	Crystal structure of $0.96(\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3)0.04(\text{BaTiO}_3)$ from combined refinement of x-ray and neutron diffraction patterns. <i>Applied Physics Letters</i> , 2012 , 101, 152906	3.4	22
76	In situ observation of microstrain relief in cold-sprayed bulk copper during thermal annealing. <i>Scripta Materialia</i> , 2012 , 67, 791-794	5.6	14
75	Strain incompatibility and residual strains in ferroelectric single crystals. <i>Scientific Reports</i> , 2012 , 2, 929	4.9	9
74	Domain wall and interphase boundary motion in a two-phase morphotropic phase boundary ferroelectric: Frequency dispersion and contribution to piezoelectric and dielectric properties. <i>Physical Review B</i> , 2012 , 86,	3.3	73
73	Magnetic and magnetotransport properties of $\text{Ba}_2\text{FeMoO}_6$ pulsed laser deposited thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 083923	2.5	9
72	Deaging and asymmetric energy landscapes in electrically biased ferroelectrics. <i>Physical Review Letters</i> , 2012 , 108, 177601	7.4	45
71	In situ x-ray diffraction of solution-derived ferroelectric thin films for quantitative phase and texture evolution measurement. <i>Journal of Applied Physics</i> , 2012 , 112, 104109	2.5	12
70	Structure and temperature-dependent phase transitions of lead-free $\text{Bi}_{1/2}\text{Na}_{1/2}\text{TiO}_3\text{Bi}_{1/2}\text{K}_{1/2}\text{TiO}_3\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ piezoceramics. <i>Journal of Materials Research</i> , 2012 , 27, 2466-2478	2.5	17
69	Effect of electrical and mechanical poling history on domain orientation and piezoelectric properties of soft and hard PZT ceramics. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 015002 ¹	7.1	7
68	Phase transition sequence in sodium bismuth titanate observed using high-resolution x-ray diffraction. <i>Applied Physics Letters</i> , 2011 , 99, 222901	3.4	81
67	Structure and Piezoelectric Properties Near the Bismuth Scandium Oxide/Lead Zirconate/Lead Titanate Ternary Morphotropic Phase Boundary. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 788-795	3.8	13
66	Origins of Electro-Mechanical Coupling in Polycrystalline Ferroelectrics During Subcoercive Electrical Loading. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 293-309	3.8	253
65	Processing of Manganese-Doped $[\text{Bi}_{0.5}\text{Na}_{0.5}]\text{TiO}_3$ Ferroelectrics: Reduction and Oxidation Reactions During Calcination and Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1363-1367 ⁸	3.8	63

64	Enhanced High-Temperature Piezoelectric Coefficients and Thermal Stability of Fe- and Mn-Substituted Na _{0.5} Bi _{0.5} TiO ₃ Ceramics. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1314-1316	3.8	79
63	Investigation of the domain switching zone near a crack tip in pre-poled lead zirconate titanate ceramic via in situ X-ray diffraction. <i>Scripta Materialia</i> , 2011 , 64, 1-4	5.6	17
62	Phase evolution in solution deposited Pb-deficient PLZT thin films. <i>Journal of Materials Science</i> , 2011 , 46, 2148-2154	4.3	6
61	Monoclinic crystal structure of polycrystalline Na _{0.5} Bi _{0.5} TiO ₃ . <i>Applied Physics Letters</i> , 2011 , 98, 152901	3.4	253
60	The role of spontaneous polarization in the negative thermal expansion of tetragonal PbTiO ₃ -based compounds. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11114-7	16.4	122
59	Effects of the Poling Process on Piezoelectric Properties in Lead Zirconate Titanate Ceramics. <i>Ferroelectrics</i> , 2011 , 419, 39-45	0.6	4
58	Evolving morphotropic phase boundary in lead-free (Bi _{1/2} Na _{1/2})TiO ₃ BaTiO ₃ piezoceramics. <i>Journal of Applied Physics</i> , 2011 , 109, 014110	2.5	361
57	Quantitative comparison between the degree of domain orientation and nonlinear properties of a PZT ceramic during electrical and mechanical loading. <i>Journal of Materials Research</i> , 2011 , 26, 1126-1132	2.5	11
56	Effect of electrical and mechanical poling history on domain orientation and piezoelectric properties of soft and hard PZT ceramics. <i>Science and Technology of Advanced Materials</i> , 2011 , 12, 015002	7.1	
55	Phase Formation of Sodium Bismuth Titanate Perovskite During Solid-State Processing. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3012-3016	3.8	16
54	Thermal and Electric Field-Dependent Evolution of Domain Structures in Polycrystalline BaTiO ₃ Using the 3D-XRD Technique 2010 , 2010, 1-10		7
53	Evolution of ferroelectric domain structures embedded inside polycrystalline BaTiO ₃ during heating. <i>Journal of Applied Physics</i> , 2010 , 107, 064101	2.5	5
52	Structural evidence for the nonmonotonic trend of TC in tetragonal PbTiO ₃ ?BiScO ₃ solid solutions. <i>Applied Physics Letters</i> , 2010 , 96, 252908	3.4	18
51	PROCESSING AND PROPERTIES OF Na _{0.5} Bi _{0.5} TiO ₃ PIEZOELECTRIC CERAMICS MODIFIED WITH La, Mn AND Fe. <i>Functional Materials Letters</i> , 2010 , 03, 45-48	1.2	17
50	Advances in lead-free piezoelectric materials for sensors and actuators. <i>Sensors</i> , 2010 , 10, 1935-54	3.8	302
49	Defect structure and materials hardening in Fe ₂ O ₃ -doped [Bi _{0.5} Na _{0.5}]TiO ₃ ferroelectrics. <i>Applied Physics Letters</i> , 2010 , 97, 012903	3.4	65
48	In situ neutron diffraction studies of a commercial, soft lead zirconate titanate ceramic: response to electric fields and mechanical stress. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 99, 557-564	2.6	22
47	Stress-induced structural changes in La-doped BiFeO ₃ BbTiO ₃ high-temperature piezoceramics. <i>Acta Materialia</i> , 2010 , 58, 5962-5971	8.4	20

46	The effect of crystal symmetry on the maximum polarization of polycrystalline ferroelectric materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 167, 6-11	3.1	15
45	Electric-field-induced phase-change behavior in (Bi _{0.5} Na _{0.5})TiO ₃ BaTiO ₃ (K _{0.5} Na _{0.5})NbO ₃ : A combinatorial investigation. <i>Acta Materialia</i> , 2010 , 58, 2103-2111	8.4	185
44	Electric-field-induced phase transformation at a lead-free morphotropic phase boundary: Case study in a 93%(Bi _{0.5} Na _{0.5})TiO ₃ 7% BaTiO ₃ piezoelectric ceramic. <i>Applied Physics Letters</i> , 2009 , 95, 032904	3.4	311
43	Time-resolved characterization of ferroelectrics using high-energy X-ray diffraction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1539-45	3.2	47
42	Measurement of structural changes in tetragonal PZT ceramics under static and cyclic electric fields using a laboratory X-ray diffractometer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 1546-54	3.2	17
41	Phase transformation of constrained BaTiO ₃ particles in a Sn matrix. <i>Scripta Materialia</i> , 2009 , 61, 391-394	3.6	5
40	Lattice parameter determination using a curved position-sensitive detector in reflection geometry and application to Sm _x /2Nd _x /2Ce _{1-x} O ₂ ceramics. <i>Journal of Applied Crystallography</i> , 2009 , 42, 490-495	3.8	12
39	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics I: Nonlinearities and Losses in the Converse Piezoelectric Effect. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2291-2299	3.8	53
38	Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics II: Time-Resolved X-Ray Diffraction. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2300-2310	3.8	62
37	Crystal Structure-ionic Conductivity Relationships in Doped Ceria Systems. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 2674-2681	3.8	140
36	Strain state of bismuth zinc niobate pyrochlore thin films. <i>Thin Solid Films</i> , 2009 , 517, 4325-4328	2.2	8
35	Intermittent X-ray diffraction study of kinetics of delithiation in nano-scale LiFePO ₄ . <i>Journal of Power Sources</i> , 2009 , 189, 702-705	8.9	26
34	Frequency effects on fatigue crack growth and crack tip domain-switching behavior in a lead zirconate titanate ceramic. <i>Acta Materialia</i> , 2009 , 57, 3932-3940	8.4	37
33	Time-Resolved, Electric-Field-Induced Domain Switching and Strain in Ferroelectric Ceramics and Crystals. <i>Springer Series in Solid-state Sciences</i> , 2009 , 149-175	0.4	2
32	High-throughput evaluation of domain switching in piezoelectric ceramics and application to PbZr _{0.6} Ti _{0.4} O ₃ doped with La and Fe. <i>Applied Physics Letters</i> , 2008 , 93, 152904	3.4	22
31	Ferroelastic domain switching fatigue in lead zirconate titanate ceramics. <i>Acta Materialia</i> , 2008 , 56, 1577-1587	3.25	25
30	Domain Switching During Electromechanical Poling in Lead Zirconate Titanate Ceramics. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 1586-1590	3.8	9
29	Crack tip process zone domain switching in a soft lead zirconate titanate ceramic. <i>Acta Materialia</i> , 2007 , 55, 5538-5548	8.4	52

28	Ferroelastic domain switching in lead zirconate titanate measured by in situ neutron diffraction. <i>Mechanics of Materials</i> , 2007 , 39, 283-290	3.3	46
27	Reply to Comments on Bounds to Texture Components in Superposed Crystallographic Textures. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 1003-1003	3.8	
26	Texture and Anisotropy of Polycrystalline Piezoelectrics. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2297-2314	3.8	83
25	The use of diffraction in the characterization of piezoelectric materials. <i>Journal of Electroceramics</i> , 2007 , 19, 69-81	1.5	29
24	Neutron diffraction study of the polarization reversal mechanism in [111] _c -oriented Pb(Zn _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ . <i>Journal of Applied Physics</i> , 2007 , 101, 104108	2.5	39
23	Time-resolved diffraction measurements of electric-field-induced strain in tetragonal lead zirconate titanate. <i>Journal of Applied Physics</i> , 2007 , 101, 094104	2.5	41
22	Time-resolved and orientation-dependent electric-field-induced strains in lead zirconate titanate ceramics. <i>Applied Physics Letters</i> , 2007 , 90, 172909	3.4	41
21	Determination of domain orientation in lead zirconate titanate ceramics by Raman spectroscopy. <i>Applied Physics Letters</i> , 2006 , 88, 162903	3.4	23
20	Characterization of domain structures from diffraction profiles in tetragonal ferroelastic ceramics. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 5294-5299	3	72
19	Direct measurement of the domain switching contribution to the dynamic piezoelectric response in ferroelectric ceramics. <i>Applied Physics Letters</i> , 2006 , 89, 092901	3.4	134
18	Bounds To Texture Components In Superposed Crystallographic Textures. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1764-1767	3.8	2
17	Domain Switching Under Cyclic Mechanical Loading in Lead Zirconate Titanate. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3567-3569	3.8	14
16	R-Curve and Stress-Strain Behavior of Ferroelastic Ceramics. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3721-3727	3.8	34
15	Ferroelastic contribution to the piezoelectric response in lead zirconate titanate by in situ stroboscopic neutron diffraction. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 100-102	2.8	3
14	Neutron texture assessment of ferroelectric lead metaniobate. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 581-583	2.8	6
13	Orientation-dependent lattice strains in lead zirconate titanate under mechanical compression by in situ neutron diffraction. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 548-551	2.8	11
12	Domain texture distributions in tetragonal lead zirconate titanate by x-ray and neutron diffraction. <i>Journal of Applied Physics</i> , 2005 , 97, 034113	2.5	161
11	Ferroelastic Fatigue of a Soft PZT Ceramic. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2788-2792	3.8	24

10	Quantifying Domain Textures in Lead Zirconate Titanate Using 022:202 and 220 Diffraction Peaks. <i>Solid State Phenomena</i> , 2005 , 105, 379-384	0.4	4
9	Texture and Symmetry Relationships in Piezoelectric Materials. <i>Materials Science Forum</i> , 2005 , 495-497, 13-22	0.4	5
8	Product and Component Grain and Domain Textures in Ferroelectric Ceramics. <i>Materials Science Forum</i> , 2005 , 495-497, 1401-1406	0.4	4
7	Domain switching anisotropy in textured bismuth titanate ceramics. <i>Journal of Applied Physics</i> , 2005 , 98, 104102	2.5	18
6	Saturated domain switching textures and strains in ferroelastic ceramics. <i>Journal of Applied Physics</i> , 2005 , 98, 024115	2.5	91
5	Critical evaluation of the Lotgering degree of orientation texture indicator. <i>Journal of Materials Research</i> , 2004 , 19, 3414-3422	2.5	54
4	Quantifying texture in ferroelectric bismuth titanate ceramics. <i>Scripta Materialia</i> , 2004 , 51, 1123-1127	5.6	27
3	Texture in Piezoelectric Titanates. <i>Materials Science Forum</i> , 2002 , 408-412, 1663-1668	0.4	2
2	Micro-Raman Spectroscopy of a Vickers Indent on Soft PTZ. <i>Ceramic Transactions</i> , 109-113	0.1	
1	Temperature-Dependent Phase Transitions in Hf x Zr 1-x O 2 Mixed Oxides: Indications of a Proper Ferroelectric Material. <i>Advanced Electronic Materials</i> , 2200265	6.4	2